

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**DRINKING WATER STATE REVOLVING FUND (DWSRF)**  
 CALENDAR YEAR 2009 PROJECT EVALUATION

**2009 PROJECT RATING - REVIEWER'S WORKSHEET**

PWS Name:		PWS ID #:
PWS City or Town:		Project No.:
Watershed:	Region:	Reviewer:

A. 1. a. The severity of the public health problem the project is intended to address.

(1) Review criteria listed below; address ALL criteria that apply and **circle** and sum applicable values.

Scoring Value

ACUTE CONTAMINANTS

- |                                                                                                  |                                                               |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>1. Microbiological</b><br>exceeded MCL 1-2 times<br>exceeded MCL more than 2 times<br>5       | 3 or<br>(or Cryptosporidium at least 0.075 oocyst/Liter)<br>5 |
| <b>2. Nitrate level</b><br>>5.0 but <10 mg/l<br>exceeded MCL                                     | 3 or<br>5                                                     |
| <b>3. Arsenic level &gt; 10ppb</b>                                                               | 1-2 times      5 or<br>3+ times        10                     |
| <b>4. Perchlorate level &gt; 1 ppb</b>                                                           | 1-2 times      5 or<br>3+ times        10                     |
| <b>5. System under DEP/DWP boil order during the 18 month period</b>                             | 3                                                             |
| <b>6. Turbidity exceed regulatory standard 1-2 times</b><br>exceed regulatory standard 3 or more | 3 or<br>5                                                     |

CHRONIC CONTAMINANTS

- |                                                                                                                                                     |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>7. Inorganic</b><br>exceed MCL or lead and/or copper action level 1-2 times<br>exceeded MCL or lead and/or copper action level more than 2 times | 2 or<br>3 |
| <b>8. Radiological</b><br>exceed MCL 1-2 times<br>exceed MCL more than 2 times                                                                      | 3 or<br>6 |
| <b>9. Organics</b><br>exceed MCL 1-2 times<br>exceed MCL more than 2 times                                                                          | 2 or<br>4 |

	<b>10. Exceedence of any individual SDWA Rule, i.e Lead &amp; Copper, Surface Water treatment, Disinfection by-product, etc.</b>	<b>2</b>
	<b>11. Secondary Contaminants as determined by the EPA and the DEP</b>	<b>1</b>
A.1.b.	<b>DISTRIBUTION CAPACITY/QUANTITY/RELIABILITY OF SYSTEM</b>	<b>Scoring Dist/Quantity</b>
	<b>Value</b>	
	<b>12. Average finished water storage capacity of less than 2 days</b>	<b>2</b>
	<b>13. Continual shortages as evident by a DEP emergency declaration</b>	<b>2</b>
	<b>14. Water quantity problems not related to declared emergency</b>	<b>1</b>
	<b>15. Pressures not maintained between 20 and 80 psi</b>	<b>1</b>
	<b>16. Provide needed corrosion control</b>	<b>1</b>
	<b>17. Lead services of the Water Supplier will be replaced _____</b>	<b>2</b>
	<b>18. Breaks per mile</b>	<b>1-2</b>
		<b>3 or more</b>
	<b>19. Replace vinyl-lined pipe</b>	<b>1</b>
	<b>20. Replace asbestos cement pipe</b>	<b>1</b>
	<b>21. Eliminate dead ends OR provide hydrants, bleed valves and/or blow-offs at dead ends</b>	<b>1</b>
	<b>22. Back-up emergency power to treatment and/or pumping facility</b>	<b>1</b>
	<b>23. Adequate interconnection to other Public Water system</b>	<b>1</b>
	<b>24. System affected by tuberculation and/or biofilm</b>	<b>3</b>
	<b>25. Security measures included as part of project</b>	<b>1-5</b>
	<b>(1 point each to maximum of five items)</b>	
	<b>26. Population size</b>	
	<b>100,000 and above</b>	<b>20</b>
	<b>10,000 to 99,999</b>	<b>15</b>
	<b>3,300 to 9,999</b>	<b>10</b>
	<b>25 to 3,299</b>	<b>5</b>
	<b>27. Proposed project</b>	
	<b>substantially eliminates identified public health threat</b>	<b>20</b>
	<b>moderately addresses identified public health threat</b>	<b>10</b>
	<b>marginally addresses public health threat</b>	<b>0</b>

Reviewer Comments:

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B. 1. a. The extent to which the project is needed to ensure compliance with an existing federal or state court or administrative order.

**28. Project**

achieves substantial compliance with Enforcement Order	20 or
achieves moderate compliance with Enforcement Order	10 or
achieves marginal compliance with Enforcement Order	0

B. 1. b. The extent to which the project is needed to come into or maintain compliance with 310 CMR 22.00, the SWDA, or other required or related federal or state permit or approval, including the Department's approval of a new drinking water source.

<b>29. Project provides DEP required disinfection of a ground water source</b>	<b>2</b>
<b>30. Project provides DEP required proper well construction</b> (through a rehab project or replacement of a contaminated well)	<b>2</b>
<b>31. Project provides water treatment residuals management</b>	<b>2</b>
<b>32. Project provides corrosion control treatment which is required but not available or is not adequate and does not meet standards</b>	<b>2</b>

B. 1. c. The extent to which the project is to address reasonably anticipated, additional federal or state requirements and has demonstrable benefits to or protection of drinking water quality and/or public health.

<b>33. Zero SDWA violations within the 12 months prior to application</b>	<b>2</b>
<b>34. Metering to &gt;95% of customer base.</b>	<b>2</b>
<b>35. Upgrading or replacing pump station(s)</b>	<b>1</b>
<b>36. Upgrading or replacing existing wells</b>	<b>1</b>
<b>37. Automation of treatment facility</b>	<b>1</b>
<b>38. Upgrade or replacement of intake structure</b>	<b>1</b>
<b>39. (a) Does the system draw water from a high or medium stressed basin or low/unassessed basin with a localized flow problem noted in a WMA permit condition? ( If yes, points added below)</b>	
<b>(b) Performed completed system Water Audit within past 2 years?</b>	0.3
<b>If yes and in stressed basin as noted in #39a above,</b>	add 0.3
<b>(c) Performed leak detection survey of 100% of the distribution system over the last 2 years</b>	0.3
<b>If answer is yes and is in stressed basin as noted in #39a above,</b>	add 0.3
<b>(d) Has fixed the following percentage of leaks (3 gpm or larger) detected in survey:</b>	
<b>50% or more</b>	0.2 (0.4 if also in stressed basin see #39a)
<b>100%</b>	0.4 (0.8 if also in stressed basin see #39a)
<b>(e) Residential per capita water use (circle one at most)</b>	
<b>In low stress/unassessed basins that use 80 gpcd or less</b>	0.2 or
<b>In low stress/unassessed basins that use 65 gpcd or less</b>	0.4 or
<b>In stressed basins or portions of basins (as defined by question 39a above) that use 65 gpcd or less</b>	0.8

- (f) For the last 2 years, were all venturi metering systems calibrated twice per year and are all inline meters calibrated annually? 0.2

Total score for #39 (round score to nearest whole no. example: 1.5 equals 2, maximum score is 3) \_\_\_\_

40. Unaccounted for water  
 For low stress/unassessed basins and rate is 15% or less 1  
 For high/medium stress basins and rate is 10% or less  
 1
41. DEP-approved Source Water Protection Plan 1
42. Water supplier has taken significant local action to promote conservation such as increasing block rate 1
43. Project achieves compliance with a new or proposed requirement.

2

Reviewer Comments:

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C. Affordability Criteria [See 310 CMR 45.06(c).] 10% of the weight will be on affordability criteria.

(1) Circle and sum affordability items below, to get affordability value.

#### Scoring Affordability Values

C. 1. (a.) Systems with service area median income of \$47,970 or less. (That is, 80% or less of State Median Household Income of \$59,963.)

(1) To answer this question, applicants may use the MHI prepared by the US Census from 1999. <http://quickfacts.census.gov>, for the most appropriate city, town, or census designated place completely including the service area of the applicant. If that service area includes more than one such designated MHI area, a weighted overall average based on population served in each of the covered MHI areas times the MHI for that area plus the same for any other such area, and divided by the total number served, shall be used to calculate the combined MHI.

(2) Alternatively, applicants may provide a service-area-specific MHI from an independent income survey covering the service area, provided that said independent survey is no more than eleven years old at the time of application.

44. All systems in such communities: 10

C. 1. (b.) Systems which will have rates to end users which result from the project in excess of 1% of the median household income MHI of the service area will be awarded points as shown below:

45. Range:  
 Greater than 1.75% 10 or

1.5% to 1.749%  
1.25% to 1.499%  
1.0% to 1.1.249%

7 or  
5 or  
2

Documentation provided Y/N \_\_\_\_\_

D. 1. Whether the project is to consolidate and/or restructure a public water system to accomplish System Expansion (Takeover/Consolidation) to Eliminate a Public Health Problem or a Capacity Development Problem *[Need to ensure that the water quality in systems being taken over is maintained or improved.]*

**46. Consolidation/Restructuring**  
to take over 1-2 systems  
to take over 2 or more systems

4 or  
8

**47. Consolidation/Restructuring to replace a source instead of treating contamination in the system to be taken over (or threat of contamination as determined by a DEP approved study that indicates a plume of contamination moving toward source)**

8

D. 2. The extent to which the project implements or is consistent with one or more current watershed management plans (e.g., EOEa basin plans) and/or watershed protection plans

**48. Project implements a**  
EOEA Watershed Plan recommendation  
System Master plan recommendation  
Local capital planning recommendation  
DEP Regional priority

8 or  
4 or  
2 or  
1

D. 3. Whether the project constitutes or is a component of a multi-community or regional approach

**49. Multi-community project that**  
substantially addresses regional or basin problem  
moderately addresses regional or basin problem  
[No relevant response]

8 or  
4 or  
0

**50. Approved Commonwealth Capital Application Score**  
approved by Commonwealth Development or to be determined (TBD)

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Reviewer Comments:

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**Total Proposal Score** \_\_\_\_\_  
(Sum of criteria scores from above)